BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at Ramachandrapura, Hanuman Layout, Patel Pillegowda Layout, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 70.00 Lakhs

Job Code: 010-20-000030

Head of Account : P-3603

Name of Agency: Sri N.M Shivakumar, # 07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 10.

Work order No: BBMP/EE/BTP/WO/231/2019-20 Date : 17-03-2020

Date of Recording: 27.07.2020.

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 & 02 is =					**663.80**	256.03	**169953.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					**300.00**	116.84	**35052.00**
3	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 & 05 is =					**123.60**	5677.44	**701732.00**
4	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 06 is =					**126.36**	6101.42	**770975.00**
5	Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications							
	RR School Road S/S	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	7.00		0.90	12.60		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amo
		2	4.00		0.90	7.20		
	RR School Road E/S	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	14.00		0.90	25.20		
		2	25.00		0.90	45.00	455.40	
						900.00		
						900.00	158.02	**142218.00**
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)							
	Bottom Concrete							
	RR School Road N/S	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	7.00	1.00	0.15	1.05		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	4.00	1.00	0.15	0.60		
	Blue Field Garden 2nd Cross W/S	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	5.00	1.00	0.15	0.75		
	Kalparuksha Layout W/S	1	30.00	1.00	0.15	4.50		
		1	6.00	1.00	0.15	0.90		
	Kalparuksha Layout E/S	1	30.00	1.00	0.15	4.50		
		1	5.00	1.00	0.15	0.75		
		1	30.00	1.00	0.15	4.50		
		1	25.00	1.00	0.15	3.75		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	12.00	1.00	0.15	1.80		
	Culverts	1	6.00	1.80	0.20	2.16		
		1	6.00	1.80	0.20	2.16		
	Side Wall							
	RR School Road N/S	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	7.00	0.15	0.60	1.26		
		2	30.00	0.15	0.60	5.40	123.18	

Suvetha. N K
Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

	Description	No.	L	B	D	Qty	R	ount
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	4.00	0.15	0.60	0.72		
	Blue Field Garden 2nd Cross W/S	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	5.00	0.15	0.60	0.90		
	Kalparuksha Layout W/S	2	30.00	0.15	0.60	5.40		
		2	6.00	0.15	0.60	1.08		
	Kalparuksha Layout E/S	2	30.00	0.15	0.60	5.40		
		2	5.00	0.15	0.60	0.90		
		2	30.00	0.15	0.60	5.40		
		2	25.00	0.15	0.60	4.50		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	12.00	0.15	0.60	2.16		
	SSM Drain Vent Concrete							
	RR School Road S/S	1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	7.00	0.60	0.15	0.63		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	4.00	0.60	0.15	0.36		
	RR School Road E/S	1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	30.00	0.60	0.15	2.70		
		1	14.00	0.60	0.15	1.26		
		1	25.00	0.60	0.15	2.25		
	Culvert	2	6.00	0.30	1.00	3.60		
		2	6.00	0.30	1.00	3.60		
						258.54	135.36	
						258.30	6058.02	**1564787.00**
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 07 is =					**18.08**	78970.11	**1427780.00**

Assistant Engineer

Assistant Executive Engineer

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amo
8	Providing and removing **center ing, strutting, propping** etc., and removal of form work for **vertical surface such as wall ckness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 08 is =					**1243.20**	398.38	**495266.00**
9	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete							
	For Covering Slab							
	RR School Road N/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	7.00		0.90	6.30		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	4.00		0.90	3.60		
	Blue Field Garden 2nd Cross W/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	5.00		0.90	4.50		
	Kalparuksha Layout W/S	1	30.00		0.90	27.00		
		1	6.00		0.90	5.40		
	Kalparuksha Layout E/S	1	30.00		0.90	27.00		
		1	5.00		0.90	4.50		
		1	30.00		0.90	27.00		
		1	25.00		0.90	22.50		
	Damaged Portion							
	RR School Road S/S	1	10.00		1.20	12.00		
		1	12.00		1.20	14.40		
		1	11.00		1.20	13.20		
		1	9.00		1.20	10.80		
		1	8.00		1.20	9.60		
		1	10.00		1.20	12.00		
		1	9.00		1.20	10.80		
		1	10.00		1.20	12.00		
		1	9.00		1.20	10.80		
		1	10.00		1.20	12.00		
	RR School Road E/S	1	12.00		1.20	14.40		
		1	15.00		1.20	18.00		
		1	12.00		1.20	14.40		
		1	10.00		1.20	12.00		
		1	12.00		1.20	14.40		
		1	10.00		1.20	12.00		
		1	8.00		1.20	9.60		
						691.20		
			709.00			**690.00**	778.95	**537476.00**

Assistant Engineer

Assistant Executive Engineer

	Description	No.	L	B	D	Qty	Rate / Unit	Amount
	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded)							
		1170	3.00			3510.00		
						3500.00	64.54	**225890.00**
11	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	Covering Slab Ramp							
	RR School Road S/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	7.00	0.30	0.10	0.21		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	4.00	0.30	0.10	0.12		
	RR School Road E/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	14.00	0.30	0.10	0.42		
		1	25.00	0.30	0.10	0.75		
	SSM Drain Coping Concrete							
	RR School Road S/S	2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	7.00	0.45	0.10	0.63		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	4.00	0.45	0.10	0.36		
	RR School Road E/S	2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	30.00	0.45	0.10	2.70		
		2	14.00	0.45	0.10	1.26		
		2	25.00	0.45	0.10	2.25		
	Covering Slab Ramp	2x2	6.00	1.20	0.15	4.32		
						64.32		

Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Divis
BBMP, Bangalore - 97

Sl. No	Description	No.	L	B	D	Qty	Rate / Unit	Amount
						64.14	6033.54	**386991.00**
12	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).							
	Kalparuksha Layout	2x10	1.50	0.60		18.00		
						18.00	5687.82	**102381.00**
	Sub Total							**6560501.00**
	GST 12%							**787260.00**
							Total	**7347761.00**
Rupees Seventy Three Lakh(s) Forty Seven Thousand Seven Hundred Sixty One Only								7347700/-

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97